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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,682	<u> </u>	05/21/2001	Edgar N. Rudisill	SS3161USNA	4206
23906	7590	10/07/2003		EXAMINER	
E I DU P	ONT DE	NEMOURS AND	MUSSER, BARBARA J		
		ECORDS CENTER	ART UNIT	PAPER NUMBER	
BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE				TALER NOMBER	
				1733	
WILMIN	GTON, DI	E 19805		DATE MAIL ED. 10/07/2002	$\mathcal{O}(\mathcal{O})$

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/681,682	RUDISILL ET AL	. / '
Office Action Summary	Examiner	Art Unit	
	Barbara J. Musser	1733	
The MAILING DATE of this communication app Period for Reply	ears on the cover shee	et with the correspondence ac	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, ma within the statutory minimum o ill apply and will expire SIX (6) cause the application to becon	ay a reply be timely filed of thirty (30) days will be considered time MONTHS from the mailing date of this of the ABANDONED (35 U.S.C. § 133).	ly. communication.
1) Responsive to communication(s) filed on 24 J	<u>uly 2003</u> .		
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.		
 Since this application is in condition for allowa closed in accordance with the practice under b Disposition of Claims 			ne merits is
4) \boxtimes Claim(s) <u>1,3-5 and 8-10</u> is/are pending in the a	pplication.		
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,3-5 and 8-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement	•	
Application Papers			
9) The specification is objected to by the Examiner		hadha Farantas	
10) The drawing(s) filed on is/are: a) accep		•	
Applicant may not request that any objection to the 11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep		disapproved by the Examin	iei.
12) The oath or declaration is objected to by the Exa	-		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.	.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		• () () - ()	
1. Certified copies of the priority documents	have been received.		
2. Certified copies of the priority documents	have been received i	in Application No	
 Copies of the certified copies of the priori application from the International Bur * See the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a	a)).	Stage
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S	.C. § 119(e) (to a provisiona	l application).
a) The translation of the foreign language prov15) Acknowledgment is made of a claim for domestic			
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	iew Summary (PTO-413) Paper No e of Informal Patent Application (PT :	
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Application/Control Number: 09/681,682

Art Unit: 1733

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1, 3, 5, 8, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Allen(U.S Publication 2002/0125601A1).

Allen discloses an apparatus for forming multi-layer filaments by extruding two thermoplastics, forming the separate streams into planar streams via coat hangar dies, passing the planar streams through filters(82), feeding the separate streams into a spinneret having multiple flow passages, combining the two streams outside the die, and attenuating the fibers with air.(Figures 1 and 3; [0026]-[0040]; [000043])

Regarding claims 3 and 8, the die is configured for two polymers. (Figure 3)

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 4 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen.

While Allen is directed to using two polymers, one in the art would appreciate that the same process could be used to form polymer fibers with three different polymers. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Allen to use three polymers as how to extrude three polymers is well-known in the fiber forming art.

4. Claims 1, 3-5, and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Groten et al. in view of Buehning.

Groten et al. discloses forming multi-layer filaments by extruding two thermoplastics.(Abstract) The reference does not disclose the specifics of the equipment. Buehning discloses forming a meltblown fibers by forming the polymer stream into a planar stream via a coat hangar die, passing the planar stream through a filter, feeding the stream into a spinneret having multiple flow passages, and attenuating the fibers with air.(Figures 2 and 4) It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the equipment of Buehning to form multicomponent fibers and use in to form the fibers of Groten et al. by adding a second set of coat-hanger die/filter/ spinnerets because the device of Beuhning can be assembled and disassembled with ease while allowing removal of parts without disassembling the entire die.(Col. 2, II. 40-44)

Regarding claims 4 and 9, While Allen is directed to using two polymers, one in the art would appreciate that the same process could be used to form polymer fibers

with three different polymers. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Allen to use three polymers as how to extrude three polymers is well-known in the fiber forming art.

Response to Arguments

5. Applicant's arguments filed 7/24/03 have been fully considered but they are not persuasive.

Regarding applicant's argument that a 131 declaration is not required, it is recommended that a 131 declaration be included. It does not appear that the claims of the provisional application do net contain "separately controlled multiple extruders". As the oath only is directed to the claims and not the specification, it is not considered support showing that applicant had possession of the subject matter.

Regarding applicant's argument that the examiner was suggesting placing the die plate of Groten et al. into the apparatus of Buehning, examiner was not suggesting such. Rather examiner was suggesting that it would have been obvious to one in the art how to make the apparatus of Buehning extrude the fibers of Groten et al. by simply including a second set of filter/coat-hanger die assemblies.

Regarding applicant's argument that Buehning is a rectangular die and Groten et al. is circular and that one would not fit in the other, Groten et al. discloses the important factors in filament formation include the shape and size of the die openings, but not the shape of the die plate.(Col. 3, II. 61-67) One in the art would appreciate that the

reference simply shows a circular die plate as it is a common type of die plate not that it is the only possible shape for the die plate.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara J. Musser whose telephone number is (703)-**305-1352**. The examiner can normally be reached on Monday-Thursday; alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 703-308-3853. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.